

ABSTRACT

Disclosed is a closed-cell polyisocyanurate foam composition capable of high compressive strength at temperatures up to 200°C. The new composition further exhibits no loss or degradation in conventional mechanical properties – less than that which impacts the intended use. The formulation of the present invention is based on the reaction product of a isocyanate and an epoxide resin catalyzed by a mixture of a tertiary amine and a cyclic amine. Compressive strength is augmented by incorporating a large fraction of a non-reactive bulk filler into the precursor polymer gel.